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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/989,652	11/21/2001	Michael L. Bessire	10013342-1	1407
7590 12/03/2004			EXAMINER	
HEWLETT-PACKARD COMPANY			PUENTE, EMERSON C	
Intellectual Property Administration			ART UNIT	PAPER NUMBER
P.O. Box 272400 Fort Collins, CO 80527-2400			2113	

DATE MAILED: 12/03/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Action Commons	09/989,652	BESSIRE, MICHAEL L.				
Office Action Summary	Examiner	Art Unit				
	Emerson C Puente	2113				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period we Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	within the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	nely filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 25 Oc	1) Responsive to communication(s) filed on <u>25 October 2004</u> .					
2a)⊠ This action is FINAL . 2b)☐ This	This action is FINAL . 2b) This action is non-final.					
3) Since this application is in condition for allowan	ce except for formal matters, pro	secution as to the merits is				
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	3 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>1-10 and 12-19</u> is/are pending in the a	application.					
4a) Of the above claim(s) <u>11</u> is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-10 and 12-19</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	Paper No(s)/Mail Date				
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal Page 6) Other:	atent Application (PTO-152)				

DETAILED ACTION

This action is made Final.

Claims 1-10 and 12-19 have been examined. Claim 11 has been cancelled.

Applicant's amendment necessitated the new ground(s) of rejection under 35 USC § 112 presented in this Office action. Applicant's amendments is also still rejected under 35 U.S.C. 102(e) as being anticipated by Davis.

Claim Objections

Claim17 is objected to because of the following informalities:

In regards to claim 17, please change "even" to "event" (see last line of claim).

Appropriate correction is required.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 1-10 and 12-19 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

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In regards to claims 1, 5, 8, 12, and 17, the limitation "without host intervention" is not supported in the specification. The remaining claims, not specifically mentioned, are all rejected because they are dependent upon one of the claim mentioned above.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-19 are rejected under 35 U.S.C. 102(e) as being anticipated by US Patent No. 6,701,449 of Davis et al. referred hereinafter "Davis".

In regards to claim 1, Davis discloses a computer system comprising:

a server coupled to a client via a network (see column 1 lines 15-20);

a first iSCSI controller coupled to the server via the network for receiving an I/O request (see column 2 lines 55-58);

a second iSCSI controller coupled to the server via the network for receiving an I/O request (see column 2 lines 55-58), said first iSCSI controller adapted to assume the role of said second iSCSI controller and process the I/O request therefor without host intervention in the event the second iSCSI controller fails (see column 4 lines 5-15 and 40-45); and

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a storage system for reading and writing an I/O request received from the first and second iSCSI controllers, the storage system being coupled to said first and second controllers (see column 2 lines 58-60).

In regards to claim 2, Davis discloses:

wherein the first and second iSCSI controllers have been assigned first and second IP addresses (see column 4 lines 40-45).

In regards to claim 3, Davis discloses:

wherein the first iSCSI controller is adapted to assume the IP address of the second iSCSI controller (see column 4 lines 40-45)

In regards to claim 4, Davis discloses:

wherein the storage system includes a fiber channel storage unit (see column 2 line 67).

In regards to claim 5, Davis discloses:

providing a first iSCSI controller having a first network address for processing an I/O request sent to the first network address (see column 2 lines 55-58 and column 4 lines 40-45);

providing a second iSCSI controller having a second network address for processing an I/O request sent to the second network address (see column 2 lines 55-58 and column 4 lines 40-45);

sensing the failure of the first controller (see column 4 lines 25-30);

arranging for the second controller to assume control of the first network address to receive the I/O request sent to the first address (see column 4 lines 40-45); and

processing the I/O request without host intervention (see column 4 lines 5-15 and 40-45);

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In regards to claim 6, Davis discloses:

wherein the first and second network addresses are IP addresses (see column 4 lines 40-

45).

In regards to claim 7, Davis discloses:

wherein the storage system includes a fiber channel storage unit (see column 2 line 67).

In regards to claim 8, Davis discloses a computer system comprising:

a server connected to network (see column 1 lines 15-20);

a first iSCSI controller having a first network address for processing an I/O request sent to/from the first network address, said first iSCSI controller connected to the server via the network (see column 2 lines 55-58 and column 4 lines 40-45);

a second iSCSI controller having a second network address for processing an I/O request without host intervention, said I/O request sent to/from the second network address, said second iSCSI controller connected to the server via the network, said second iSCSI controller adapted to assume responsibility for the first network address in the event the first iSCSI controller fails (see column 2 lines 55-58 and column 4 lines 5-15 and 40-45); and

a storage system connected to the first and second iSCSI controllers (see column 2 lines 58-60),.

In regards to claim 9, Davis discloses:

wherein the first and second network addresses are IP addresses (see column 4 lines 40-

45).

In regards to claim 10, Davis discloses:

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wherein the storage system includes a fiber channel storage unit (see column 2 line 67).

In regards to claim 12, Davis discloses a method for processing I/O requests to or from a storage system via first and second iSCSI controllers, the iSCSI controllers having first and second network addresses (see column 4 lines 40-45), comprising the steps of:

establishing communication between the first iSCSI controller and the second iSCSI controller (see column 4 lines 25-30);

storing the second address in memory of the first iSCSI controller (see column 4 lines 40-45);

monitoring the second controller to detect if it has failed (see column 4 lines 25-30); and processing an I/O request sent to the second network address by the first controller, in the event the second controller fails, said processing occurring without host intervention (see column 4 lines 5-15 and 40-45);

In regards to claim 13, Davis discloses:

wherein the first and second network addresses are IP addresses (see column 4 lines 40-45).

In regards to claim 14, Davis discloses:

reading or writing the I/O request to the storage system (see column 3 lines 1-5).

In regards to claim 15, Davis discloses:

detecting the failure of the second controller (see column 4 lines 25-30).

In regards to claim 16, Davis discloses:

wherein the storage system includes a fiber channel storage unit (see column 2 line 67).

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In regards to claim 17, Davis discloses a computer program for performing the steps of a method for processing I/O requests to or from a storage system via first and second iSCSI controllers, the iSCSI controllers having first and second network addresses (see column 4 lines 40-45), the method comprising the steps of:

establishing communication between the first iSCSI controller and the second iSCSI controller (see column 4 lines 25-30);

storing the second address in memory of the first iSCSI controller (see column 4 lines 40-45;

monitoring the second controller to detect if it has failed (see column 4 lines 25-30); and processing an I/O request sent to the second network address by the first controller, in the event the second controller fails, said processing occurring without host intervention (see column 4 lines 5-15 and 40-45);

In regards to claim 18, Davis discloses:

wherein the first and second network addresses are IP addresses (see column 4 lines 40-45).

In regards to claim 19, Davis discloses:

wherein the method further comprises the step of reading or writing the I/O request to the storage system (see column 3 lines 1-5).

Response to Arguments

Applicant's arguments filed October 25, 2004 have been fully considered but they are not

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deemed to be persuasive.

In response to applicant's argument on bottom of page 8 that cites: "From the above description, it appears that the SCMs communicate with the network through a host interface (see also element 210, FIG. 2). This suggests that in the event of a failure, the host retries the request in order for the request to be processed by the SCM that is in an operational state, otherwise data loss may occur. (see also col. 1, lines 50-55) Thus, Davis does not disclose, teach, or suggest a second iSCSI controller coupled to the server via the network for receiving an 1/0 request, said first iSCSI controller adapted to assume the role of said second iSCSI controller and process the 1/0 request therefor without host intervention in the event the second iSCSI controller fails.," examiner respectfully disagrees.

Davis does not disclose or suggest in the specification, "in the event of a failure, the host retries the request in order for the requests to be processed by the SCM", as the applicant claims. Rather, Davis discloses status monitors in the controllers which monitors the status of the remote controllers (see column 4 liens 25-30) and further discloses having redundant SCMs that are connected to the same network which allows either of the SCMs to respond to the IP address of the other SCM in the event of failure of one of the SCMs (see column 4 lines 6-10), thus indicating assuming the role of the second iSCSI controller and processing the I/O request therefor without host intervention. Examiner maintains his rejection.

Conclusion

Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE

MONTHS from the mailing date of this action. In the event a first reply is filed within TWO

MONTHS of the mailing date of this final action and the advisory action is not mailed until after

the end of the THREE-MONTH shortened statutory period, then the shortened statutory period

will expire on the date the advisory action is mailed, and any extension fee pursuant to 37

final action.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Emerson C Puente whose telephone number is (571) 272-3652.

The examiner can normally be reached on 8-5 M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Robert W Beausoliel can be reached on (571) 272-3645. The fax phone number for

the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is (571) 272-2100.

Emerson Puente

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TECHNOLOGY CENTER 2100

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CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

however, will the statutory period for reply expire later than SIX MONTHS from the date of this

11/29/04